

## **ABSTRACT OF THE DISCLOSURE**

5           The present invention relates to methods, compositions, compounds and kits for  
detecting, measuring and modulating protein ubiquitylation via the N-end rule pathway  
and for identifying novel substrates, enzymes and modulators of N-end rule  
ubiquitylation. The present invention also relates to specific substrates of N-end rule  
10 ubiquitylation as well as activated fragments of these substrates, proteases that expose N-  
degrons in these substrates, ubiquitin ligases that ubiquitylate these substrates and  
inhibitors of the ubiquitylation of these substrates.